



Procedure

Extra Activity 1 - Rotation Rate

To determine the rotation rate of the Science on a Sphere™ Globe:

1. Stand still and find an exact point on the globe to focus your attention
2. Begin timing with the stopwatch and stop timing when your focus point makes exactly one revolution.



Questions

Extra Activity 1 - Rotation Rate

1. Approximately how many rotations does the globe make in one minute?
2. How many rotations does the globe make in an hour?
3. How does this rate of rotation compare to the rate of Earth's rotation?



Procedure

Extra Activity 2 - Lat. - Long. - Location

This extra activity let students determine locations on the Science on a Sphere™ Globe.





Questions

Extra Activity 2 - Lat. - Long. - Location

1. Given a specific latitude and longitude, name the location.
2. Given the name of a specific location, determine its latitude and longitude.

Conclusion

Extra Activities 1 & 2: Rotation Rate & Lat. - Long. - Location

Review the procedures, questions, and answers from these two extra activities and write a short conclusion.





Answer Key

Extra Activity 1 - Rotation Rate

1. Two rotations per minute. (Depending on the data set used, the number of rotations may vary. Check this before presenting material to an audience.)
2. One hundred and twenty (120) per hour
3. The sphere makes about 120 rotations per hour; Earth makes one twenty - fourth ($1/24$) of a rotation per hour (one rotation per 24 hours). Therefore the sphere is rotating much faster.

Answer Key

Extra Activity 2 - Lat. - Long. - Location

The latitudes, longitudes, and names of locations vary with the instructor. (Prepare lists before presenting material to an audience.)

